

Modified Nucleotides and Methods Of Labeling Nucleic Acids

ABSTRACT

The invention relates to functionalized nucleotides that permit the covalent linkage of the nucleotides to moieties containing reactive groups complementary to the functional group. More specifically, the invention relates to nucleotides comprising a functional group attached to the nucleobase that permits the covalent attachment of the nucleotides or a nucleic acid comprising such nucleotides to detectable moieties, polypeptides and solid supports. The invention further relates to nucleic acids comprising such functionalized nucleotides, methods of labeling nucleic acids with such nucleotides, and kits comprising such nucleotides.